USER MANUAL

Central Vacuum System

2000868
Conforms to: UL Std. 1017
Certified to:
CAN/CSA Std. C22.2 No. 243-10

THIS MANUAL APPLIES TO:
HUSKY NANOOK

DOC-532_EN REV03

Made in Canada

EN

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1. IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING YOUR CENTRAL VACUUM SYSTEM

When using an electrical appliance, basic precautions should always be followed.

WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

- Unplug and disconnect the power unit from the electrical outlet before servicing or maintenance.
- Do not install outdoors and do not use on wet surfaces.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- Use only as described in this manual. Use only manufacturer's recommended accessories.
- Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service centre.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed (for commercial use models).
- Do not pull or carry by power cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners.
- Check inlet openings for small objects that may not have been vacuumed in order to keep openings clear of air flow reducing factors.
- Keep power cord away from heated surfaces.
- Do not unplug by pulling on power cord. To unplug, grasp the plug, not the cord.
- Do not handle system or accessories with wet hands.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Turn off all controls before unplugging.
- Use extra care when cleaning on stairs.

⚠ **IMPORTANT**

DO NOT vacuum gypsum dust, flour, mud, or any sludgy materials as they cake onto the filter and obstruct the filtration system resulting in the over-heating of the motor and thus failure of the power unit to function properly.

- Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
- Connect to a properly grounded outlet only. See grounding requirements in section 2.
- Do not exhaust into a wall, a ceiling or concealed space of a building or structure, use appropriate installation to exhaust outside the residence.
- Make sure that the air exhaust is never obstructed.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not place or store anything on top or around of the power unit, overheating of motor could occur.

SAVE THESE INSTRUCTIONS

INTENDED FOR HOUSEHOLD USE ONLY

2. GENERAL GUIDELINES & REFERENCE

GROUNDING REQUIREMENTS

This power unit must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This power unit has a power cord of at least 5.4 ft / 1.65 m in length and is equipped with a grounding conductor and grounding plug. The plug must always be inserted directly into an electrical outlet that is properly installed and grounded in accordance with all local codes and regulations.

DO NOT USE AN EXTENSION CORD.

WARNING:

Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the power unit – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

The unit has a grounding attachment plug. Make sure that the power unit is connected to an outlet having the same configuration as the plug. No adapter should be used with this power unit. The power unit should be connected to an independent circuit breaker.

ELECTRICAL REQUIREMENTS

The following model is to be used on a nominal circuit of 15 A at 110-120 Volts A.C. and 60 Hz: NNK-155I-NA-H.

The following models are to be used on a nominal circuit of 10 A at 220-240 Volts A.C. and 50 Hz: NNK-130I-EU/CH/UK/SE-H.

NOTE

» Other optional suffixes can be used, on all models, to denote cosmetic changes.

GENERAL GUIDELINES TO BE OBSERVED AT ALL TIMES

1. The power unit must be installed in a ventilated area away from any heat source;
2. The Husky central vacuum system must be used only on dry surfaces. At no time should the system be used to draw up liquids nor should it be used to vacuum wet carpets or floors;
3. It is mandatory that the filtration cage be equipped with its permanent filter at all times when the system is in use;
4. The motor housing must never be obstructed in any way to avoid overheating or damaging;
5. DO NOT vacuum gypsum dust, flour, mud, or any sludgy materials as they will cake onto the filter and obstruct the filtration system resulting in the over-heating of the motor and thus failure of the power unit to function properly;
6. Do not attempt to shorten or modify the electrical power cord;
7. As a security measure, unplug the electrical power cord before proceeding with any maintenance;
8. In order for the warranty to be valid, only a Husky authorized service personnel may carry out the necessary repairs or maintenance on the motor;
9. Power unit must be so positioned that the plug is always easily accessible;
10. Pertaining to an electrified inlet valve (intended for the connection of a current-carrying hose/motorized nozzle combination):
    - Connect only a current-carrying hose to this wall valve;
    - Do not install a wall valve outdoors;
    - Do not use with a damaged hose; return hose to a service centre.

IMPORTANT

Husky is not responsible for damages resulting from improper use. The warranty does not cover damage resulting from misuse or problems resulting from installation that does not conform to specifications, or any functional alterations and / or physical changes to the power unit. Improper or non-recommended installation of the system and / or power unit done against predefined principles of the user manual is also considered misuse.

All conditions and restrictions are set forth in the Husky limited warranty, the user manual and the system installation guide. To optimize the performance and life of your Husky power unit, it is important to do regular maintenance and cleaning of the filter according to the guidelines listed in this user manual.

3. MODEL

NOTE

» APPLICABLE TO ALL POWER UNITS: in order to avoid overheating, we recommend 12 in / 30 cm clearance all around the power unit.

Fig. 1 *Low voltage technology hose.*

4. INSTALLATION

POWER UNIT

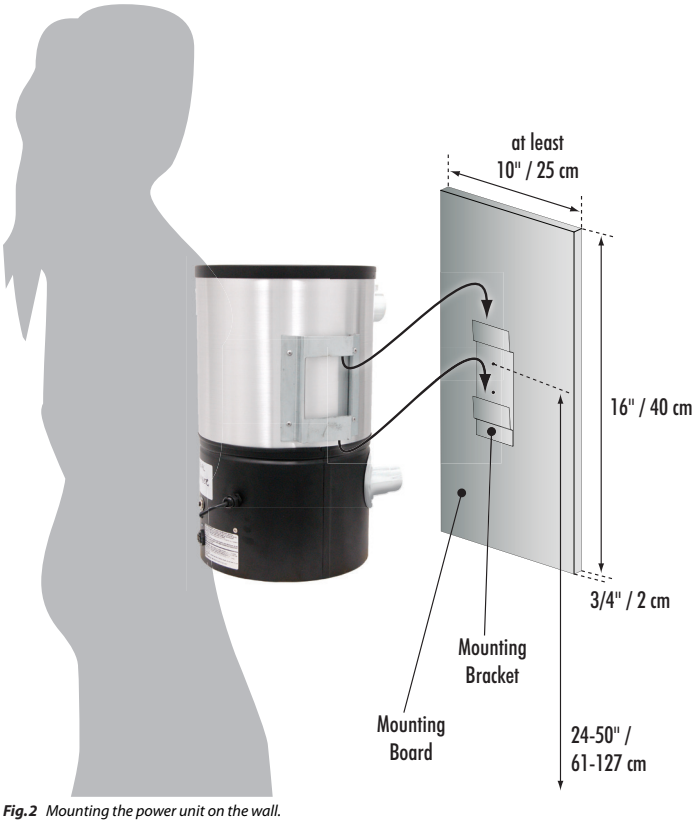


Fig. 2 *Mounting the power unit on the wall.*

The power unit must be installed in a ventilated area, easily accessible and away from any heat source. It should also be close to an accessible electrical outlet.

1. Determine the location of the power unit on the wall; we recommend that the power unit be fastened at 24 -50" / 61-127 cm above ground in order for the top cover to be readily accessible. Moreover, allow a minimum clearance of 20" / 50 cm on top.; allow 12" / 30 cm clearance on all sides of the power unit. When possible, it is advisable to install the power unit on a concrete wall in order to minimise the vibrations;
2. Gypsum wall:
   - Prepare the wall by installing a plywood mounting board (not provided) 16" / 40 cm high x 3/4" / 2 cm thick and wide enough to be screwed to at least 2 studs;
   - Fasten the mounting bracket to the mounting board with the provided screws;
3. Concrete wall:
   - Drill the holes with a concrete drill bit;
   - Insert the provided wall anchors into the drilled holes;
   - install the mounting bracket with the provided screws into the anchors;

NOTE

» You may also install a plywood mounting (16" / 40 cm x 10" / 25 cm x 3/4" / 2 cm) board if desired;

» You can use provided screws to fix mounting board on the wall, but cannot use them for installing the mounting bracket on the mounting board because of their length. You need to use shorter screws (not provided).

IMPORTANT

Always use the right type of screws for the surface you are working with (wood, concrete, metal…)

4. Insert the power unit bracket into the mounting bracket (as shown in Fig. 2).
5. Insert the PVC pipe into the air intake coupling; **DO NOT GLUE!**
6. OPTIONAL - If you plan on conducting the exhaust towards the exterior, secure PVC piping to the air outlet all the way to the outside.
7. Connect the control module (see section 5);
8. Connect the power unit directly into an electrical outlet.

5. LOW VOLTAGE WIRE CONNECTION

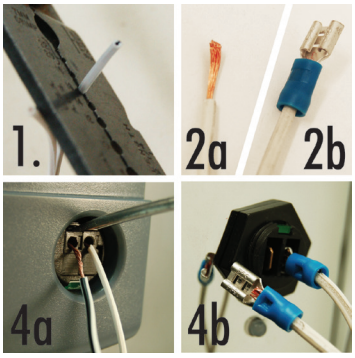


Fig.3 Low voltage wire connection

Before connecting the low voltage wires, make sure that the power unit is disconnected from the electrical outlet.

1. First, strip the low voltage wires approximately 3/8 in / 10 mm.
2. Refer to Fig. 3 for visual aid:

• 2a: The power unit is an EZ connector-type, leave the wires stripped.

• 2b: The power unit is a PIN connector-type, you must crimp the connectors onto the wires in order to hook-up the system.

3. Insert the low voltage wires into the power unit's low voltage terminal. Slightly pull on the low voltage wires to verify that they are properly fastened to the terminal.
4. To remove the wires:
   - 4a (EZ connector): Gently press the tabs above each terminal with a screwdriver and pull the wires out.
   - 4b (PIN connector): gently pull the connector out of the socket.

6. SYSTEM OPERATING INSTRUCTIONS

Your new system is ready to be used, here are some simple guidelines to follow when using your power unit:

- Insert the flexible hose in one of the wall or floor vacuum inlets installed in your home;
- If you use a hose fitted with a remote switch on the handle, use the interrupter on the hose's handle to turn the power unit on or off.

7. SYSTEM MAINTENANCE

FILTRATION SYSTEM

In order to maintain good air quality in your home, the economical model vacuums dust into a disposable filtration bag attached to the unit's air intake. This unit is also equipped with a support pad which protects the filtration bag in the vacuum chamber.

IMPORTANT

DO NOT vacuum gypsum dust, flour, mud, or any sludgy materials as they cake onto the filter and obstruct the filtration system resulting in the over-heating of the motor and thus failure of the power unit to function properly.

DISPOSABLE FILTRATION BAG REPLACEMENT

The disposable filtration bag must be changed at least every 3 months to ensure proper functioning of the power unit.

DISPOSABLE FILTRATION BAG	VACUUM MODEL
FILTRE-189	NNK

IMPORTANT

This appliance MUST always be used with a disposable filtration bag; the bag is the only filtration system of the unit.

To replace the filtration bag:

1. Remove the unit's cover;
2. Gently remove the used filtration bag from the air inlet;
3. Dispose of the used filtration bag;
4. Take out the new filtration bag of it's plastic wrapping;
5. Put it in place by gently inserting the extendible rubber part of the filtration bag on the plastic air inlet;
6. Put the unit's cover back in place.

NOTE

» When replacing the filtration bag, make sure that the extendible rubber part of the filtration bag is neatly fitted on the plastic intake pipe and that the unit cover is properly installed to prevent any suction loss.

MOTOR

All units are equipped with a soft-start control module and have a LED communicating the system status (see fig. 4 in section 8 for more details on LED color interpretation). When the LED changes to amber, it is time to make an appointment with a Husky certified technician for a complete check-up of the unit. This mandatory maintenance will extend the life of the unit and keep the warranty valid. If it is still not carried out after 20 hours of additionnal operating, the device will automatically switch off as a safety measure.

All units also have a mini breaker (power cut-off) directly connected to the module which protects the motor against an overload and prevents overheating.

HOSE HANDLE

Wipe the hose handle regularly with a moist towel to avoid buildup.

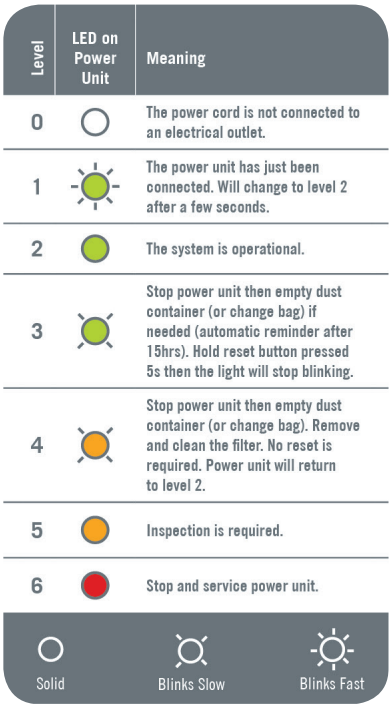
8. TROUBLESHOOTING

Failure of the power unit could be caused by:

- Inadequate power level (voltage / amperage) (ensure that power level complies with the power unit's electrical requirements);
- Malfunction of the motor or control module.

Simple checks can often help you find out why your power unit is inoperative. We invite you to verify the following before calling a service technician.

SITUATION	VERIFICATION
NO POWER	Check that the power unit's electrical cord is plugged directly into a power outlet.
	The power unit is equipped with a mini breaker (button on the side of the motor housing) which protects the motor against an overload. To reset the mini breaker, simply push the button. If the power goes off one more time, call a service centre near you.
	Using a screwdriver fitted with a rubber handle, touch both pins of the low voltage terminals (short circuit the 2 pins) on the side of the motor housing. If the power unit starts, the problem lies with the low voltage wiring (installed along the piping).
	You should then verify if the 24 Volts circuit is adequately connected by checking each inlet. Open the inlet cover, touch the small contacts with the head of a pair of metal pliers with rubber handles. This will establish power and start the motor. Repeat for each vacuum inlet. **NOTE** » If all vacuum inlets are functional and your flexible hose is a low voltage technology handle, then there may be a defect in the cut-off switch of the hose or the hose itself.
	Check the breaker on your electric circuit panel.
DECREASED SUCTION	The flexible hose may be blocked. If you cannot unblock it, try inserting the opposite end of the hose into the wall inlet; touch the contacts which are located on the inside of the inlet with the hose wand in order to start the power unit. **NOTE** » Frame the inlet with your hands or a large enough piece of cloth (such as a towel) to ensure the maximum suction to unblock the hose.
	Check that the cover on the unit is well in place and that the gasket is in good condition.
	Check if the disposable filtration bag needs to be replaced.
	Make sure all inlets are airtight.
	If the pipes are visible in certain areas: check if the fittings are well glued and that there are no air leaks.
	If the pipes should be blocked behind the walls, it is possible to determine where the blockage is located by starting from the furthest inlet from the central vacuum. Insert a tissue paper and check to see if the tissue paper reaches the dust canister. Repeat the same for each inlet.


Level
LED on Power Unit
Meaning
0
The power cord is not connected to an electrical outlet.
1
The power unit has just been connected. Will change to level 2 after a few seconds.
2
The system is operational.
3
Stop power unit then empty dust container (or change bag) if needed (automatic reminder after 15hrs). Hold reset button pressed 5s then the light will stop blinking.
4
Stop power unit then empty dust container (or change bag). Remove and clean the filter. No reset is required. Power unit will return to level 2.
5
Inspection is required.
6
Stop and service power unit.
Solid
Blinks Slow
Blinks Fast

LED INTERPRETATION GUIDE

All Husky power units with internal control module come with an explicative sticker (inside the module casing cover where applicable).

NOTE

» The indicator in step 4 does not apply to this power unit model.

Fig.4 *LED interpretation guide*

9. SERVICE & COMMITMENT

Our Commitment: Satisfying your needs

In an effort to always provide the customers with the best products available we welcome comments and suggestions from our customers all over the world. We want to develop a strong commitment in providing all of our customers the products which are always of the finest quality that meets or exceeds their needs.

So, if you have any comments or suggestions related to our products or distributors, please contact us.

For any inquiries:

E-mail us at:	**info@nuera-air.com**
Send us your comments to :	Nuera Air Inc. - Customer Service 1490 DAGENAIS BLVD WEST LAVAL (QC) H7L 5C7 CANADA
You can also visit our website to see all our products or find a local distributor:	**www.huskyvac.com**

10. RECYCLING INSTRUCTIONS

Old power units contain valuable materials that can be recycled.

DO NOT dispose of such appliances with the normal domestic waste but rather by way of appropriate collecting points.

HUSKY

UK

Recycling Instructions
Old appliances contain valuable materials that can be recycled. **DO NOT** dispose of such appliances with the normal domestic waste but rather by way of appropriate collecting points.

FR

Instructions de recyclage
Les vieux appareils contiennent les matériaux importants qui peuvent être réutilisés. Ne vous débarrassez pas de tels appareils avec le débarras domestique normal mais plutôt par les centres de rassemblement appropriés.

ES

Instrucciones de Reciclaje
Los viejos aparatos contienen los materiales importantes que pueden reutilizarse. No quita tales aparatos con el trastero doméstico normal sino más bien por los centros de reunión convenientes.

DE

Recycling Hinweise
Die alten Geräte beinhalten wiederverwendbare Materialien. Werfen Sie die Geräte nicht in den Hausmüll, sondern entsorgen Sie diese an geeigneten Sammelstellen.

SE

Återvinning
En centraldammsugare består av material och komponenter som kan återvinnas. Använd därför alltid lämplig sorteringsmetod eller återvinningscentral.

CZ

Recycling Pokyny
Staré přístroje obsahují cenné materiály, které jsouvhodnék opětovnému zpracování. Přístroj neodkládat k běžnému domácímu odpadu, nýbrž nechat zlikvidovat prostřednictvím vhodných sběrných systémů.

IT

Istruzioni di Riciclaggio
I vecchi apparecchi contengono i materiali importanti che possono essere riutilizzati. Débarrassez tali apparecchi con il sgabuzzino domestico normale ma piuttosto con i centri di raccolta adeguati.

CN

回收说明
老设备包含一些可以回收的有用材料。请勿将这样的设备与普通的生活垃圾一起处理，而是通过适当的收集站处理。

SA

تعليمات متعددة اللغات لإعادة التدوير

تحتوي الأجهزة القديمة على مواد قيمة صالحة لإعادة التدوير. لا تلق بالجهاز مع النفايات المنزلية، بل قم بالتخلص منه على النحو المطلوب من خلال نقاط الجمع الملائمة.

PL

Rekolarskie Polecenia
Zużyte urządzenia zawierają wartościowe materiaty, które nadają się do powtórnego przerobu. Urządzenia nie wyrzucać z odpadami domowymi, lecz należy je oddać w odpowiednim punkcie zbiórki surowców wtórnych.

PT

Instruções Recicladoras
Aparelhos usados contém materiais valiosos, que são apropriados para reprocessamento. Não colocar o aparelho no lixo doméstico normal, mas sim descartar correctamente através dos sistemas de colecta adequados.

HU

Újrahasznosításra
A használt készülékek értékes anyagokat tartalmaznak, melyek újrahasznosításra alkalmasak. A készüléket ne tegyük háztartási szemétbe, hanem megfelelö gyüjtörendszerek igénybevételével szakszerüen ártalmatlanitsuk.

GR

Οδηγίες της ανακύκλωσης
Οι παλαιές συσκευές περιέχουν τα σημαντικά υλικά που μπορούν να ανακυκλωθούν. Δεν απαλλάσσετε τέτοιες συσκευές με τις εσωτερικές φύρες αλλά μάλλον από τα κατάλληλα κέντρα της συγκέντρωσης.

DK

Genanvendelse Instruks
Gamle apparater indeholder værdifulde materialer der er egnet til genbrug. Bortdkaf ikke apparatet via det det normale hushldningsaffald, men fagmæssigt korrekt via egnede samlesystemer